

A satellite view of the Earth from space, showing the Western Hemisphere. The Americas are visible in the center, surrounded by the Atlantic and Pacific Oceans. The image has a blue and white color scheme, with the oceans appearing deep blue and the landmasses in shades of green and brown. The title text is overlaid on the top portion of the image.

California Global Warming Solutions Act of 2006

Determining the 1990 Statewide Greenhouse Gas Level and 2020 Limit

June 22, 2007

Air Resources Board

ARB Assembly Bill 32

Inventory Responsibilities

- Statewide GHG emission inventory
- Identify statewide 1990 GHG emissions level (2020 statewide limit)
- Adopt mandatory reporting requirements
- Board adoption by January 1, 2008

Statewide Greenhouse Gas Emission Inventory

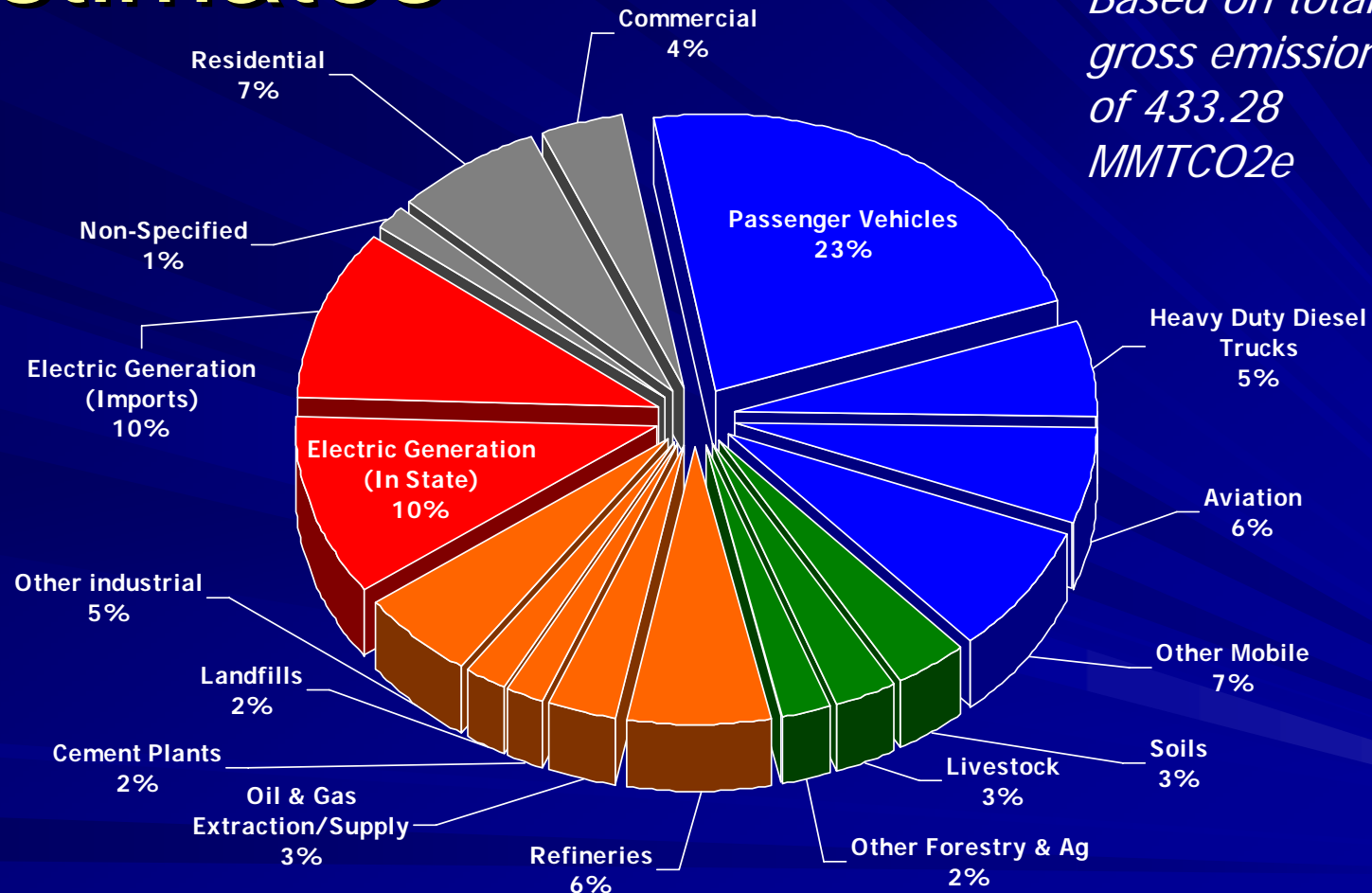
- Energy Commission's 1990-2004 inventory transferred January 1, 2007
- Update statewide GHG inventory
- Sector estimates determine statewide 1990 GHG emissions
- Starting point for future scoping plan used to describe emission reductions

1990 Emissions Level and 2020 Limit

- Statewide 1990 GHG emissions level establishes 2020 limit
- 1990 level and 2020 limit are based on statewide, aggregated emissions
- 2020 limit not sector specific
- Present to Board by January 1, 2008

Existing 1990 Emissions Estimates

Based on total gross emissions of 433.28 MMTCO₂e



Data Source: California Energy Commission

Inventory Review and Evaluation Process

- Review and evaluation of CEC's 1990-2004 inventory
 - Near term GHG inventory is top-down
 - Future mandatory reporting will provide bottom-up data
- Document methodology
- Use improved methods and updated data inputs where appropriate

Focus of Inventory Review

- Refineries
- Transportation
- Electric Power
- Landfills
- Cement
- Agriculture/Ag Soil Management
- Forest and Rangeland

*~80% of
Total
1990
Emissions*

Obtaining Improved Data

- State and federal agencies
 - Energy Information Administration (EIA)
 - California Energy Commission
 - U.S. EPA
 - Others
- Focused technical discussions with stakeholders

Public Process

- Kick-off workshop in December 2006
- Focused technical discussions to identify improvements
 - Data
 - Emission factors
 - Calculation methods

Status of GHG Inventory Review

- Review is complete
- Mostly rely on current methodologies
- Incorporate new input data where appropriate

1990 Emissions Level

- Reflect statewide, aggregated, annual emissions
- Not sector or facility specific
- Consider emissions of six “Kyoto gases”
- Express in tons of CO₂ equivalents (CO₂e)

2020 Emissions Limit

- Equivalent to 1990 level
- Statewide, aggregate emissions
- Remains in effect unless otherwise amended or repealed
- Present to Board for consideration by January 1, 2008

Proposed Schedule

- July 2007
 - Release documentation and updates
- August 2007
 - Public Workshop
- Early Fall 2007
 - Draft staff report
- November/ December 2007
 - Board consideration of GHG inventory and 1990 level / 2020 limit in public hearing

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GHG Inventory / Mandatory Reporting Website
<http://www.arb.ca.gov/cc/ccei/ccei.htm>

